WHAT IS CLAIMED IS:

- 1. An article comprising:
- a substrate;
- a layer of a metal phosphate material upon the surface of the substrate; and,
- a layer of an oriented cubic oxide material having a rock-salt-like structure upon the metal phosphate material layer.
 - 2. The article of claim 1 further including a top-layer of a superconducting material upon the oriented cubic oxide material layer.
 - 3. The article of claim 1 wherein said superconducting material is YBCO.
 - 4. The article of claim 1 wherein the substrate is a flexible polycrystalline metal.
 - 5. The article of claim 4 further including a strontium ruthenate buffer layer between the oriented cubic oxide material layer and a top-layer of a superconducting material.
 - 6. The article of claim 1 wherein the layer of an oriented cubic oxide material having a rock-salt-like structure is deposited by ion beam assisted deposition.
 - 7. The article of claim 6 further including a layer of homoepitaxial oriented cubic oxide material having a rock-salt-like structure between the ion beam assisted deposited cubic oxide material layer and the strontium ruthenate layer.
 - 8. The article of claim 7 further including a top-layer of a superconducting material upon the at least one layer of a buffer material.
 - 9. The article of claim 1 wherein the metal phosphate is aluminum phosphate.
 - 10. The article of claim 5 wherein the metal phosphate is aluminum phosphate.
 - 11. The article of claim 1 wherein the oriented cubic oxide material layer is magnesium oxide.
 - 12. A thin film template structure for subsequent epitaxial thin film deposition comprising:
 - a polycrystalline flexible metal substrate;

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a layer of an a metal phosphate upon the surface of the polycrystalline flexible metal substrate; and,

a layer of an oriented cubic oxide material having a rock-salt-like structure upon the metal phosphate layer.

- 13. The thin film template structure of claim 12 wherein the thin film template structure further include a layer of $SrTi_xRu_{1-x}O_3$ where $0 \le x \le 1$ upon the layer of an oriented cubic oxide material.
- 14. The thin film template structure of claim 12 wherein the oriented cubic oxide material layer is magnesium oxide.
- 15. The thin film template structure of claim 12 wherein the metal phosphate is aluminum phosphate.
- 16. The thin film template structure of claim 14 wherein the thin film template structure further include a layer of $SrTi_xRu_{1-x}O_3$ where $0 \le x \le 1$ upon the layer of an oriented cubic oxide material.